

What is claimed is:

- 1 1. An architecture for prioritizing data flow in a remote services system
2 comprising:
3 at least one proxy;
4 a queuing module for ranking data files according to predetermined priority
5 parameters; and
6 at least one mid-level manager operable to control operation of said proxy
7 using said queuing module to prioritize data transmission over said
8 remote services system.
- 1 2. The architecture according to claim 1, said priority parameters used by
2 said queuing module comprising precedence and persistence attributes specified in
3 accordance with predetermined quality-of-service parameters.
- 1 3. The architecture according to claim 2, further comprising a throttle
2 module, operating in conjunction with said queuing module, for controlling access to
3 system bandwidth.
- 1 4. The architecture according to claim 3, further comprising a back-
2 channel data path for implementing access control over system bandwidth by said
3 throttle module.
- 1 5. The architecture according to claim 4, further comprising a directory
2 assistance protocol server for controlling access to configuration parameters relating
3 to bandwidth allocation in said remote services system.
- 1 6. The architecture according to claim 5, further comprising an internet
2 web access portal to provide a user with controlled access to said directory assistance
3 protocol server to change said bandwidth allocation parameters.

1 7. An architecture for prioritizing data flow in a remote services system
2 comprising:
3 a plurality of proxies;
4 a queuing module for ranking data files according to predetermined priority
5 parameters;
6 an intermediate mid-level manager,
7 an applications mid-level manager, said applications mid-level manager
8 operating in conjunction with said queuing module and said
9 intermediate mid-level manager to control operation of said plurality of
10 proxies to prioritize data transmission over said remote services
11 system.

1 8. The architecture according to claim 7, said queuing module operable to
2 rank data files according to precedence and persistence attributes specified in
3 accordance with predetermined quality-of-service parameters.

1 9. The architecture according to claim 8, further comprising a throttle
2 module, operating in conjunction with said queuing module, for controlling access to
3 system bandwidth.

1 10. The architecture according to claim 9, further comprising a back-
2 channel data path for implementing access control over system bandwidth by said
3 throttle module.

1 11. The architecture according to claim 10, further comprising a directory
2 assistance protocol server for controlling access to configuration parameters relating
3 to bandwidth allocation in said remote services system.

1 12. The architecture according to claim 11, further comprising an internet
2 web access portal to provide a user with controlled access to said directory assistance
3 protocol server to change said bandwidth allocation parameters.

1 13. A method for prioritizing data flow in a remote services system
2 comprising:

3 receiving data on a proxy for transmission over said remote services system;
4 queuing said data according to predetermined priority parameters to provide a
5 queued set of data in a ranked order; and
6 using a mid-level manager to control operation of said proxy to prioritize
7 transmission of data over said remote services system in accordance
8 with said ranked order.

1 14. The method according to claim 13, said control of said proxy further
2 comprising use of a throttle for controlling access to system bandwidth.

1 15. The architecture according to claim 14, further comprising storing data
2 transfer parameters on a directory assistance protocol server for controlling access to
3 configuration parameters relating to bandwidth allocation in said remote services
4 system.

1 16. The method according to claim 15, further comprising providing a
2 customer access to said directory assistance protocol directory through an internet
3 web-access portal to provide said customer with limited access to change bandwidth
4 parameters of said system.

5